U.S. Patent Application Serial No. 09/995,575

7	thinning the wiring by removing a surface layer of the wiring to a depth of at least 5 nm; and
EUN	forming a metal silicide film on a surface of the wiring by causing reaction between a surface layer
9	of the thinned wiring and a refractory metal which reacts with silicon to form silicide,
10	wherein the wiring thinning step comprises the steps of:
11	oxidizing the wiring, using a rapid thermal processing, beginning on an upper surface thereof
12	down to a predetermined depth; and
13	removing an oxidized section of the wiring oxidized in the oxidizing step.
1	5. (Twice Amended) A method for manufacturing a semiconductor device, comprising the steps
2	of:
3	forming wiring comprising silicon on a surface of a semiconductor substrate;
4 (2	covering part of the wiring with a resist pattern;
5	implanting arsenic ions into the wiring using the resist pattern as a mask;
6	removing the resist pattern;
7	oxidizing the wiring, using a rapid thermal processing, beginning on an upper surface thereof down
8	to a predetermined depth;
9	removing an oxidized section of the wiring oxidized in the oxidizing step and thereby thinning the
10	wiring; and
11	forming a metal silicide film on a surface of the wiring by causing reaction between a surface section
12	of the thinned wiring and a refractory metal which reacts with silicon to form silicide.